

California Environmental Protection Agency

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**DRAFT**

**Certification Procedure for  
Portable Outboard Marine Tanks and  
Portable Outboard Marine Tank Fuel Hose Assemblies**

**CP-510**

Adoption Date: [To be determined]

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**California Environmental Protection Agency  
Air Resources Board**

**DRAFT CP-510**

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Portable Outboard Marine Tank Fuel Hose Assemblies**

The definitions in Section 2468.1, Title 13 of the California Code of Regulations (CCR) apply to this Certification Procedure. For purposes of this Procedure, the term "ARB" refers to the California Air Resources Board.

**1. GENERAL INFORMATION AND APPLICABILITY**

This document specifies the criteria and procedures used by ARB to evaluate and certify any portable outboard marine tank or portable outboard marine tank fuel hose assembly, or both portable outboard marine tank and portable outboard marine tank fuel hose assembly advertised for sale, sold, offered for sale or manufactured for sale in California. An Executive Order will only be issued for a portable outboard marine tank or portable outboard marine tank fuel hose assembly or both a portable outboard marine tank and portable outboard marine tank fuel hose assembly that demonstrates compliance with all applicable certification requirements.

**1.1 Requirement to Comply with Other Applicable Codes and Regulations**

Compliance with the Performance, Certification or Compliance Standards in this Section does not exempt portable outboard marine tanks or portable outboard marine tank fuel hose assemblies from compliance with other applicable federal and state statutes and regulations such as state fire codes, safety codes, and other safety regulations, nor will the Air Resources Board test for or determine compliance with such other statutes or regulations.

**2. CERTIFICATION REQUIREMENTS**

The application for certification shall include the test results for each test specified in Air Resources Board "Test Procedure TP-511 Diurnal Rate from Portable Outboard Marine Tanks" or Test Procedure TP-512 Permeation Rate From Portable Outboard Marine Tank Fuel Hose Assemblies", which are incorporated by reference herein.

Testing for portable outboard marine tank certification shall be conducted using six (6) portable outboard marine tanks plus one (1) an additional tank for use as a trip blank of the same product family. Testing for portable outboard marine tank fuel hose assembly certification shall be conducted using six (6) portable outboard marine tank fuel hose assemblies of the same product family. An accredited

independent test laboratory shall conduct all testing. For purposes of this certification procedure, an accredited independent test laboratory is one that is not owned, operated or affiliated with the applicant seeking an Executive Order. A listing of certification requirements to be used in conjunction with the regulatory requirements specified in Section 2468, Article 6, Title 13, are included in Table 2.

## **2.1 Portable Outboard Marine Tank**

2.1.1 On or after December 1, 2008, any portable outboard marine tank with a rated capacity of twelve (12) gallons or less shall:

- (a) Be equipped with an Automatic Vent.
- (b) Be equipped with a Fill Cap.
- (c) Not include a Manual Vent.
- (d) Not exceed a diurnal emission rate of 0.2 grams/gallon-day.

2.1.2 On or after June 1, 2009, any portable outboard marine tank with a rated capacity of thirty (30) gallons or less shall:

- (a) Adhere to the same requirements specified in section 2.1.1.
- (b) Be equipped with a Tank Connector that automatically closes and seals and is manufactured to standard (to be determined).

## **2.2 Portable Outboard Marine Tank Fuel Hose Assembly**

2.2.1 On or after December 1, 2008, any portable outboard marine tank fuel hose assembly shall:

- (a) Be equipped with an Engine Connector specific to an outboard engine that automatically closes and seals.
- (b) Be equipped with Factory Installed Hose Clamp(s).
- (c) Be equipped with a Primer Bulb.
- (e) Not exceed a permeation rate of 15 grams/m<sup>2</sup>/day.

2.2.2 On or after June 1, 2009, any portable outboard marine tank fuel hose assembly shall:

- (a) Adhere to the same requirements specified in section 2.2.1.
- (b) Be equipped with a Tank Connector that automatically closes and seals and is manufactured to standard (to be determined).

## **2.3 Warranty**

- (a) An applicant seeking an Executive Order pursuant to this article must warrant a portable outboard marine tank or portable outboard marine tank fuel hose assembly, or both portable outboard marine tank and

portable outboard marine tank fuel hose assembly as free from defects in materials and workmanship that cause such systems to fail to conform with each of the certification and compliance standards for a period of one year from the date of sale.

- (b) An applicant must supply a copy of the warranty language specified in section (a) above in the packaging for each portable outboard marine and/or portable outboard marine tank fuel hose assembly at the time of sale identifying the following minimum requirements:
  - (1) A statement of the terms and length of the warranty period;
  - (2) An unconditional statement that the portable outboard marine tank or portable outboard marine tank fuel hose assembly, or both portable outboard marine tank and portable outboard marine tank fuel hose assembly is certified to California requirements; and
  - (3) A listing of the specific certification requirements or limitations to which it was certified.

## **2.4 Operating and Maintenance Instructions**

All applicants shall submit a copy of the operating and maintenance instructions that shall be attached to each portable outboard marine tank or portable outboard marine tank fuel hose assembly, or both portable outboard marine tank and portable outboard marine tank fuel hose assembly at the time of purchase by a consumer.

## **2.5 Materials Compatibility with Fuels**

All materials and components submitted for certification shall demonstrate compliance with the requirements of ASTM F-852-99 (March 10, 1999), which is incorporated by reference herein.

**Table 2**  
**Certification Requirements**

<b>Portable Outboard Marine Tank</b>		
<b>Performance Type</b>	<b>Requirement</b>	<b>Effective Date</b>
Automatic Vent	Automatically Closes and Seals	December 1, 2008
Diurnal Rate (12-gallon or less)	$\leq 0.2$ grams/gallon-day	December 1, 2008
Fill Cap	Automatically Closes and Seals	December 1, 2008
Fuels Compatibility	ASTM F-852-99	December 1, 2008
Diurnal Rate (30-gallon & less)	$\leq 0.2$ grams/gallon-day	June 1, 2009
Tank Connector	Automatically Closes and Seals Manufactured to standard TBD	June 1, 2009
<b>Portable Outboard Marine Tank Fuel Hose Assembly</b>		
<b>Performance Type</b>	<b>Requirement</b>	<b>Effective Date</b>
Engine Connector	Automatically Closes and Seals	December 1, 2008
Factory Installed Hose Clamp	All hose connections	December 1, 2008
Permeation Rate	$\leq 15$ grams/m <sup>2</sup> /day	December 1, 2008
Fuel Hose Assembly Connector	Automatically Closes and Seals Manufactured to standard TBD	June 1, 2009

### **3. SUBMITTING AN APPLICATION**

An applicant shall submit the following information in its application for certification:

- 3.1** Model number(s) and size(s) of the portable outboard marine tank or portable outboard marine tank fuel hose assembly for which certification is requested. The applicant shall supply test data that demonstrates the portable outboard marine tank and/or portable outboard marine tank fuel hose assembly comply with each of the certification requirements identified in Section 2.

- 3.2** Engineering drawings of the portable outboard marine tank or portable outboard marine tank fuel hose assembly detailing dimensions specific to each component. If more than one type or size of a portable outboard marine tank or more than one type of a portable outboard marine tank fuel hose assembly is included in the application, separate dimensioned drawings are required.
- 3.3** A sample of the portable outboard marine tank or portable outboard marine tank fuel hose assembly.
- 3.4** Test results obtained from “Test Procedure TP-511, Diurnal Rate from Portable Outboard Marine Tanks”, adopted (INSERT DATE) and/or “Test Procedure TP-512, Permeation Rate from Portable Outboard Marine Tank Fuel Hose Assemblies”, adopted (INSERT DATE).
- 3.5** Any other test results or data that supports the requirements in 3.4 above and that would assist in the determination of certification.
- 3.6** The language, symbols, or patterns that will be permanently embossed on the portable outboard marine tank or portable outboard marine tank fuel hose assembly. This shall include examples of date code wheels as well as other permanent markings and their locations on the portable outboard marine tank or portable outboard marine tank fuel hose assembly. Once an executive order is issued, these permanent markings cannot be altered without first obtaining the approval of the ARB Executive Officer.
- 3.7** The language or label(s) that may be affixed to the portable outboard marine tank or portable outboard marine tank fuel hose assembly at the time of sale.
- 3.8** The manufacturer’s recommended instructions, instruction decals, or other types of placards attached to the portable outboard marine tank or portable outboard marine tank fuel hose assembly at the time of sale. Include examples of actual decals or placards if available. Proposed placards or decals are sufficient if actual samples are not available. Once an executive order is issued, these decals or placards cannot be altered without first obtaining the approval of the ARB Executive Officer.
- 3.9** The manufacturer warranty(s) as defined in section 2.3.
- 3.10** A description of the materials used in the construction of the portable outboard marine tank or portable outboard marine tank fuel hose assembly. Material compositions of gaskets, O-rings and seals must be described.
- 3.11** If the applicant is not the manufacturer of all system components incorporated in a portable outboard marine tank or portable outboard marine tank fuel hose assembly, the applicant must include evidence that the component

manufacturer(s) have been notified of the applicant's intended use of the components in the portable outboard marine tank or portable outboard marine tank fuel hose assembly for which the application is being made.

- a) If the applicant is requesting inclusion of one or more components not manufactured by it on the applicable portable outboard marine tank or portable outboard marine tank fuel hose assembly, the applicant shall notify the component manufacturer(s) and obtain the information required of the application as specified in section 3.1 through 3.11.
- b) If the component(s) requested for inclusion in the certification have not been previously incorporated into a portable outboard marine tank or portable outboard marine tank fuel hose assembly that has been issued an executive order pursuant to these procedures, each of the component(s) shall be subject to each of the application and test requirements specified herein.

#### **4. APPLICATION REVIEW AND ACCEPTANCE**

- 4.1** An application for certification shall be deemed complete after it is determined to contain all information required by this procedure. The application shall not be deemed complete until each of the requirements listed in this procedure has been submitted for approval.
- 4.2** The Executive Officer may find it necessary to request additional information of the applicant in order to complete the application and/or evaluate a specific portable outboard marine tank or portable outboard marine tank fuel hose assembly.
- 4.3** Applications will be processed in accordance with the procedures and time periods set forth in 17 CCR section 60030 et seq. The time periods may be extended by the Executive Officer as deemed reasonable.
- 4.4** The application shall be signed by the applicant or by their authorized delegate.

#### **5. ENGINEERING EVALUATION**

The ARB Executive Officer shall evaluate each application for certification of a portable outboard marine tank or portable outboard marine tank fuel hose assembly to determine if the criteria for issuance of an executive order has been met.

- 5.1** Any portable outboard marine tank or portable outboard marine tank fuel hose assembly that does not comply with the requirements of this Certification Procedure shall be denied certification, and the application shall be returned to the applicant with reason(s) for denial. ARB will not evaluate an applicant's re-submittal of a portable outboard marine tank or portable outboard marine tank



fuel hose assembly application for certification unless the applicant can demonstrate that it has addressed and/or corrected deficiencies identified by ARB during the initial evaluation. The applicant must supply written notification to the Executive Officer to identify the deficiency(s) and remedy(s).

- 5.2** The portable outboard marine tank or portable outboard marine tank fuel hose assembly certification requirements submitted by the applicant shall be reviewed to ensure they conform to the certification requirements in Section 2 of this Procedure.
- 5.3** The procedures for, and results of, any bench test or operational test results contained in the application shall be reviewed to determine if such procedures comply with the required test methodology, and to ensure that the results comply with the certification requirements described in this Procedure.

## **6. ALTERNATE TEST AND INSPECTION PROCEDURES**

Test procedures other than those specified in this Certification Procedure may be used only if prior written approval is obtained from the Executive Officer. For purposes of this procedure, a test procedure is a methodology used to determine, with a high degree of accuracy, precision, and reproducibility, the value of a specified parameter. Once the test procedure is utilized to generate test data, the results are compared to the applicable certification requirements.

- 6.1** An applicant may request advance ARB Executive Officer approval to utilize an alternative test procedure. This request shall describe the proposed alternative test procedure, including equipment specifications necessary to conduct the test. If training is required to properly perform a test, a proposed training program shall be included.
- 6.2** The Executive Officer shall respond within sixty (60) days of receipt of a request and indicate that a formal response will be sent within one hundred twenty (120) days. This time period will allow for a detailed analysis of the proposed test procedure. If the Executive Officer determines that he or she cannot adequately evaluate the request within the specified time periods, he or she shall notify the applicant of said determination along with a projected date that a decision will be made.
- 6.3** All testing to determine the acceptability of the procedure shall be conducted by ARB staff, or by an independent test laboratory under the direction of ARB. Testing shall be conducted in accordance with good engineering judgement.
- 6.4** Test Procedure approval shall be granted on a case-by-case basis, only after all necessary comparison testing has been conducted. Because of the evolving nature of technology and test procedures, such approval may or may not be granted in subsequent cases without a new request for approval and additional testing to determine equivalency.

- 6.5** Any approval to use alternate test procedures and the supporting evaluation test results shall be maintained by the Executive Officer.